

HAWAII, ISLAND OF OAHU

16284200 WAIHEE STREAM NEAR KAHALUU

LOCATION.--Lat 21°27'04", long 157°51'36", Hydrologic Unit 20060000, on right bank, 0.2 mi downstream from forest-reserve boundary, 1.0 mi south of Kahaluu School, and 1.6 mi west of Ahuimanu sewage treatment plant.

DRAINAGE AREA.--0.97 mi².

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 170 ft above mean sea level (from topographic map).

REMARKS.--Records computed by Ben Shimizu. Records good. Honolulu Board of Water Supply diverts water from tunnel and wells in drainage area.

AVERAGE DISCHARGE.--25 years (water years 1975-99), 6.17 ft³/s (4,470 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,530 ft³/s, March 21, 1991, gage height, 7.93 ft, from rating curve extended above 100 ft³/s on basis of slope area measurement at gage height 7.93 ft; minimum, 1.1 ft³/s, April 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 280 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 7	1900	*163	*4.42				

Minimum discharge, 3.6 ft³/s, October 1-2, 11-12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.7	4.1	4.7	4.9	4.4	4.5	4.5	4.4	4.2	4.2	4.0
2	3.6	3.9	4.2	4.3	4.5	4.4	4.6	4.5	4.4	4.2	4.2	4.0
3	3.7	4.6	4.2	4.2	4.5	4.4	4.9	4.5	4.4	4.2	4.1	4.0
4	3.7	5.4	4.3	4.2	4.5	4.4	4.8	4.5	4.4	4.2	4.1	4.0
5	3.7	6.4	4.4	4.1	4.5	4.3	4.5	4.5	4.4	4.1	4.1	4.1
6	3.7	5.1	4.3	4.1	4.5	4.3	4.9	4.5	4.4	4.1	4.1	4.1
7	3.7	4.4	4.2	19	4.5	4.4	4.7	4.5	4.4	4.1	4.1	4.1
8	3.7	4.2	4.7	6.3	4.4	4.3	4.6	4.5	4.4	4.1	4.1	4.1
9	3.7	4.1	5.0	4.8	4.4	4.1	4.5	4.5	4.4	4.1	4.1	4.1
10	3.7	4.0	4.5	4.6	4.4	4.2	4.5	4.5	4.4	4.1	4.1	4.1
11	3.7	4.0	4.3	4.4	4.4	4.3	5.6	4.5	4.4	4.1	4.1	4.1
12	3.8	4.0	4.2	4.4	4.4	4.2	5.7	4.6	4.4	4.1	4.1	4.2
13	4.3	4.4	4.2	4.3	4.4	4.2	6.6	4.5	4.4	4.1	4.1	4.1
14	3.9	4.5	4.2	4.3	4.4	4.3	5.1	4.5	4.4	4.1	4.1	7.3
15	3.8	4.1	4.2	4.2	4.5	5.7	4.9	4.5	4.4	4.4	4.1	4.1
16	3.7	4.3	4.2	4.6	4.6	5.2	4.8	7.3	4.4	4.4	4.1	4.0
17	3.7	4.4	4.2	4.4	4.4	4.8	4.8	6.0	4.4	4.5	4.1	4.0
18	3.7	4.9	4.1	4.4	4.5	4.5	4.8	4.9	4.4	4.4	4.1	4.1
19	3.7	4.6	4.1	4.4	4.4	4.5	4.7	4.7	4.4	4.1	4.2	4.0
20	3.7	4.6	4.0	4.2	4.5	4.5	5.0	4.7	4.4	4.6	4.1	4.2
21	3.7	4.5	4.0	4.2	4.9	4.5	6.7	4.5	4.4	4.2	4.1	13
22	3.7	4.6	4.0	5.3	4.7	4.4	5.1	4.5	4.4	4.2	4.1	4.0
23	3.7	4.4	4.0	4.6	4.5	4.4	4.9	4.5	4.4	4.2	4.1	11
24	3.7	4.3	4.0	4.5	4.4	4.4	4.7	4.5	4.4	4.2	4.1	4.0
25	3.8	4.2	4.1	4.4	4.4	4.4	4.7	4.5	4.4	4.2	4.1	4.0
26	3.7	4.1	4.0	5.4	4.4	4.4	4.7	4.5	4.4	4.2	4.2	4.0
27	3.7	4.2	4.0	4.7	4.4	4.4	4.7	4.5	4.5	4.2	4.1	4.0
28	3.7	4.2	4.1	4.5	4.4	4.6	4.6	4.5	4.2	4.2	4.1	3.9
29	3.7	4.1	4.1	4.5	--	4.5	4.5	4.5	4.2	4.2	4.1	3.8
30	3.7	4.1	4.1	4.5	--	4.5	4.5	4.4	4.2	4.2	4.1	3.8
31	3.7	--	8.9	5.3	--	4.6	--	4.4	--	4.2	4.1	--
TOTAL	115.6	132.3	134.9	155.8	125.7	138.5	147.6	144.5	131.5	130.4	127.5	140.2
MEAN	3.73	4.41	4.35	5.03	4.49	4.47	4.92	4.66	4.38	4.21	4.11	4.67
MAX	4.3	6.4	8.9	19	4.9	5.7	6.7	7.3	4.5	4.6	4.2	13
MIN	3.6	3.7	4.0	4.1	4.4	4.1	4.5	4.4	4.2	4.1	4.1	3.8
AC-FT	229	262	268	309	249	275	293	287	261	259	253	278

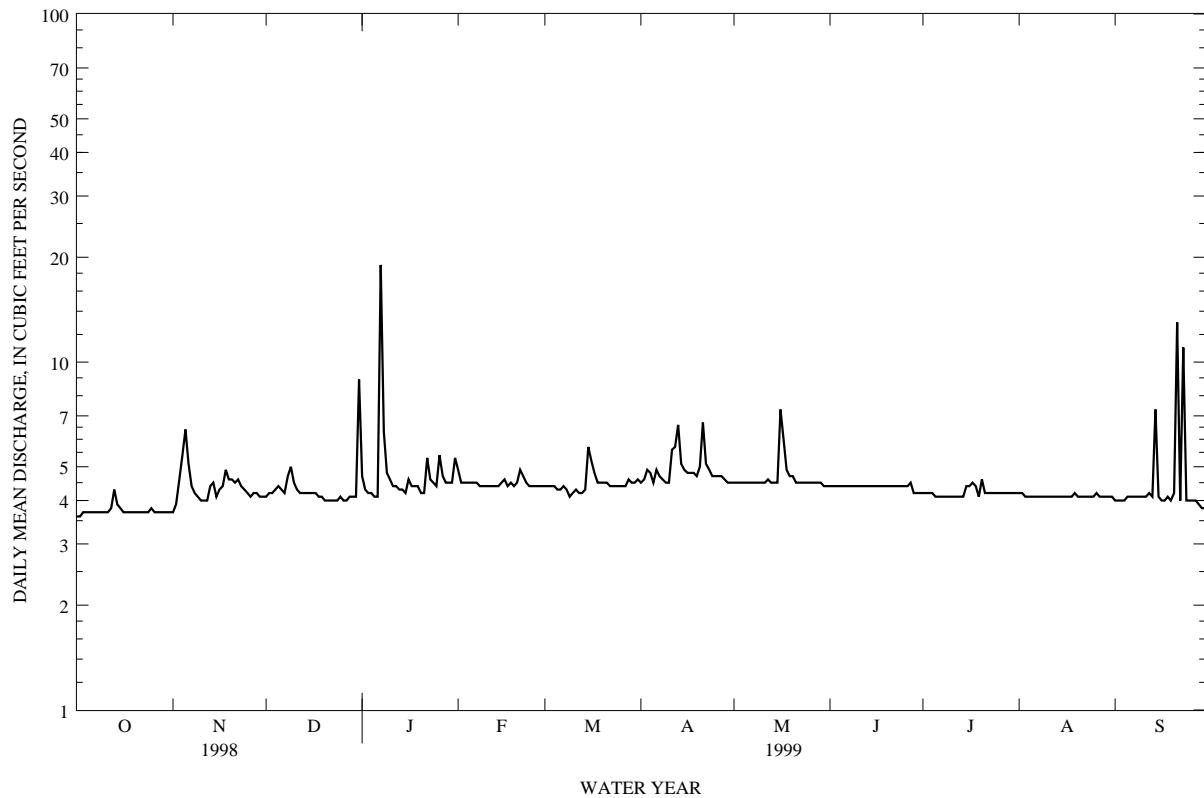
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

MEAN	5.77	6.63	6.44	6.80	6.51	7.31	6.27	5.85	5.61	5.72	5.59	5.56
MAX	9.81	14.3	15.5	12.1	13.2	17.7	15.1	8.46	8.88	9.95	10.6	9.43
(WY)	1983	1991	1988	1988	1979	1991	1989	1981	1982	1989	1982	1982
MIN	2.70	4.08	3.60	3.71	3.05	2.85	2.72	3.18	3.36	2.40	2.61	2.74
(WY)	1976	1978	1976	1977	1977	1977	1977	1977	1976	1977	1976	1976

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1975 - 1999
ANNUAL TOTAL	1751.3	1624.5	
ANNUAL MEAN	4.80	4.45	6.17
HIGHEST ANNUAL MEAN			9.36
LOWEST ANNUAL MEAN			3.32
HIGHEST DAILY MEAN	45	Jan 1	149 Mar 19 1991
LOWEST DAILY MEAN	3.6	Sep 30	1.3 Apr 15 1977
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 30	1.4 Apr 12 1977
ANNUAL RUNOFF (AC-FT)	3470	3220	4470
10 PERCENT EXCEEDS	5.5	4.8	7.4
50 PERCENT EXCEEDS	4.6	4.4	5.5
90 PERCENT EXCEEDS	3.7	4.0	4.0



HAWAII, ISLAND OF OAHU

16284200 WAIHEE STREAM NEAR KAHALUU--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-86, March to September 1999.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June to September 1999.

WATER TEMPERATURE: June to September 1999.

INSTRUMENTATION.--Specific-conductance and temperature monitor from June to September 1999. Automatic water-quality (point) sampler from January to September 1999.

REMARKS.--Water-quality samples were collected monthly beginning in March 1999. Monthly samples were collected with a hand-held sampler using the equal-width-increment sampling method. Additional samples were collected during storm events (September 14 and 21) using an automatic (point) sampler located on the right bank of the stream.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 180 microsiemens per centimeter, Apr. 22, 1980; Minimum, 100 microsiemens per centimeter, Aug. 9, 1977.

WATER TEMPERATURE: Maximum, 24.0°C, Aug. 9, 1977; Minimum, 19.0°C, Jan. 24, Mar. 6, 1980.

EXTREMES FOR THE CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 228 microsiemens per centimeter, Sept. 21; minimum, 126 microsiemens per centimeter, Sept. 23.

WATER TEMPERATURE: Maximum, 21.5°C, July 8, Aug. 1; minimum, 19.5°C, Sept. 14, 21, 23.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-	OXYGEN,		SPE-		CALCIUM	MAGNE-	POTAS-
		CHARGE, INST.	DIS- SOLVED	(PER- CUBIC FEET)	OXYGEN, CENT DIS-	CON- DUCT-	TEMPER- ATURE-	DIS- SOLVED	SIUM, DIS- SOLVED
		(00061)	(00301)	(00300)	(US/CM)	(DEG C)	(MG/L) AS CA	(MG/L) AS MG	(MG/L) AS K)
MAR 17...	1430	4.6	--	--	138	20.5	8.6	5.7	1
APR 21...	1420	5.5	91	8.1	146	20.5	8.3	5.7	.9
MAY 21...	1300	4.4	97	8.6	150	21.0	8.2	5.4	.9
JUN 15...	1120	4.4	99	8.9	155	20.5	8.2	5.0	.9
JUL 08...	1100	4.1	--	--	147	21.5	8.3	5.4	.9
AUG 19...	1010	4.1	96	8.5	146	21.0	8.7	5.6	1.0
SEP 14...	2214	28	--	--	140	19.5	7.7	5.1	1.1
	1000	4	98	8.7	148	21.0	8.2	5.5	1.0
	0833	36	--	--	131	20.0	6.7	4.5	1.2
DATE		ALKA- SODIUM, DIS- SOLVED (MG/L) AS NA)	BICAR- WAT DIS TOT IT FIELD (MG/L AS CACO3)	CHLO- WATER DIS IT FIELD MG/L AS HCO3	FLUO- RIDE, DIS SOLVED AS CL)	SILICA, RIDE, DIS- SOLVED AS F)	SULFATE (MG/L) AS SIO2)	NITRO- GEN, AMMONIA (MG/L) AS SO4)	NITRO- GEN, AM- MONIA + ORGANIC (MG/L) AS N)
		(00930)	(39086)	(00453)	(00940)	(00950)	(00955)	(00945)	(00608)
MAR 17...	12	47	--	16	<.1	30	2.0	<.02	<.1
APR 21...	12	45	55	16	<.1	28	2.6	<.02	<.1
MAY 21...	12	50	60	16	<.1	29	2.3	<.02	<.1
JUN 15...	13	44	54	15	<.1	28	2.0	<.02	<.1
JUL 08...	12	44	54	15	<.1	30	2.4	<.02	E.08
AUG 19...	13	44	54	15	<.1	31	2.6	<.02	E.08
SEP 14...	12	42	52	16	<.1	32	2.6	.02	E.07
	16...	11	47	57	<.1	30	2.7	<.02	<.1
	21...	11	38	47	14	<.1	28	2.3	<.02

E Estimated

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WATER-QUALITY RECORDS

DATE	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO ₂ +NO ₃	NITRO- GEN, DIS-	PHOS- PHORUS	PHOS- ORTHO,	PHOS- PHORUS	SOLIDS, RESIDUE	MANGA-	
	TOTAL (MG/L) (00625)	SOLVED (AS N)	SOLVED (AS N)	SOLVED (AS P)	SOLVED (AS P)	TOTAL (MG/L) (00666)	AT 180 DEG. C (00671)	IRON, DIS- SOLVED (UG/L) (00665)	NESE, DIS- SOLVED (UG/L) (01046)
MAR 17...	<.1	.13	<.01	.032	.03	.037	108	E7	E2
APR 21...	E.09	.12	<.01	.031	.02	.033	110	E9	<3
MAY 21...	E.05	.11	<.01	.032	.04	.032	110	<10	<3
JUN 15...	E.05	.12	<.01	.031	.03	.033	122	<10	<3
JUL 08...	E.06	.11	<.01	.033	.03	.036	108	<10	<3
AUG 19...	E.06	.11	<.01	.032	.04	.035	108	E7	<1
SEP 14...	.1	.15	<.01	.043	.04	.055	107	<10	<2
16...	E.10	.09	<.01	.033	.03	.056	108	<10	E2
21...	.9	.06	<.01	.04	.03	.23	102	<10	<2

DATE	CARBON, CARBON, ORGANIC			PH WATER FILTERED		
	ORGANIC DIS- SOLVED (MG/L) (00681)	SUS- PENDED TOTAL (MG/L) (00689)	SEDI- MENT, SUS- (STAND- ARD UNITS)	FIELD	(STAND- ARD UNITS)	
MAR 17...	.4	.2	--	8.4		
APR 21...	.4	.2	3	7.8		
MAY 21...	.2	<.2	1	8.3		
JUN 15...	.3	.2	2	8.2		
JUL 08...	.3	<.2	5	7.8		
AUG 19...	.3	--	1	7.8		
SEP 14...	.7	.9	13	7.9		
16...	.4	.2	1	7.9		
21...	.9	>4.2	165	8.1		

DATE	ALUM- INUM, DIS- SOLVED (UG/L) (AS AL)	ANTI- MONY, DIS- SOLVED (UG/L) (AS SB)	ARSENIC DIS- SOLVED (UG/L) (AS AS)	BARIUM, DIS- SOLVED (UG/L) (AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L) (AS BE)	CADMIUM DIS- SOLVED (UG/L) (AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L) (AS CR)	COBALT, DIS- SOLVED (UG/L) (AS CO)
	(01106)	(01095)	(01000)	(01005)	(01010)	(01025)	(01030)	(01035)
AUG 19...	3	<1	<1	2	<1	<1	1.0	<1

DATE	COPPER, DIS- SOLVED (UG/L) (AS CU)	LEAD, DIS- SOLVED (UG/L) (AS PB)	DENUM, DIS- SOLVED (UG/L) (AS MO)	NICKEL, DIS- SOLVED (UG/L) (AS NI)	MOLYB- DIS- SOLVED (UG/L) (01060)	NIUM, DIS- SOLVED (UG/L) (01065)	SELE- NIUM, DIS- SOLVED (UG/L) (01145)	SILVER, DIS- SOLVED (UG/L) (AS AG)	ZINC, DIS- SOLVED (UG/L) (AS ZN)	URANIUM NATURAL DIS- SOLVED (UG/L) (01075)
	(01040)	(01049)	(01060)	(01065)	(01145)	(01075)	(01090)	(22703)		
AUG 19...	<1	<1	<1	<1	<1	<1	<1	<1	<1	

E Estimated

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WATER-QUALITY RECORDS

	2,6-DI-			BEN-			CAR-		CARBO-	
DATE	ETHYL	ACETO-	ALA-	ATRA-	FLUR-	BUTYL-	BARYL	WATER	FURAN	CHLOR-
	ANILINE	CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	ATE,	WATER	WATER	PYRIFOS
	WAT FLT	WATER	WATER,	BHC	WATER,	WAT FLT	WATER,	FLTRD	FLTRD	DIS-
	0.7 U	FLTRD	DISS,	DIS-	DISS,	0.7 U	DISS,	0.7 U	0.7 U	SOLVED
	GF, REC	REC	REC,	SOLVED	REC	GF, REC	REC	GF, REC	GF, REC	(UG/L)
	(UG/L)	(49260)	(UG/L)	(34253)	(UG/L)	(39632)	(82673)	(04028)	(82680)	(38933)
AUG 19...	<.003	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	
	DEETHYL			DISUL-			ETHAL-		ETHO-	
DATE	CYANA-	DCPA	ATRA-	FOTON	EPTC	FLUR-	ALIN	WATER	PROP	FONOPOS
	ZINE,	WATER	ZINE,	DI-	WATER	WATER	WATER	WATER	WATER	WATER
	WATER,	FLTRD	WATER,	AZINON,	ELDRIN	FLTRD	FLTRD	WAT FLT	FLTRD	DISS
	DISS,	0.7 U	DISS,	DIS-	DIS-	0.7 U	0.7 U	0.7 U	0.7 U	REC
	REC	GF, REC	REC	SOLVED	SOLVED	GF, REC	GF, REC	GF, REC	GF, REC	(UG/L)
	(UG/L)	(82682)	(UG/L)	(04040)	(UG/L)	(39572)	(39381)	(82677)	(82668)	(82663)
AUG 19...	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	LIN-			METHYL			MOL-		NAPROP-	
DATE	URON	MALA-	AZIN-	PARA-	METHYL	METRI-	INATE	AMIDE		
	WATER	PHOS	THION	WAT FLT	WAT FLT	BUZIN	WATER	WATER		
	LINDANE	FLTRD	THION,	WAT FLT	WAT FLT	SENCOR	FLTRD	FLTRD	P,P'	DDE
	DIS-	0.7 U	DIS-	0.7 U	0.7 U	WATER	WATER	0.7 U	0.7 U	
	SOLVED	GF, REC	SOLVED	GF, REC	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	DISSOLV
	(UG/L)	(82666)	(UG/L)	(39532)	(82686)	(82667)	(39415)	(82630)	(82671)	(34653)
AUG 19...	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
	PENDI-			PEB-			PRON-		PRO-	
DATE	METH-	ULATE	METHRIN	CIS	PHORATE	PRO-	AMIDE	PROP-	PANIL	PRO-
	PARA-	ALIN	WATER	WATER	WATER	METON,	WATER	CHLOR,	WATER	PARGITE
	THION,	WAT FLT	FLTRD	WAT FLT	FLTRD	WATER,	FLTRD	WATER,	FLTRD	FLTRD
	DIS-	0.7 U	0.7 U	0.7 U	0.7 U	DISS,	0.7 U	DISS,	0.7 U	0.7 U
	SOLVED	GF, REC	GF, REC	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC
	(UG/L)	(82683)	(UG/L)	(82669)	(82687)	(82664)	(04037)	(82676)	(04024)	(82679)
AUG 19...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013
	TEBU-			TER-			TER-		THIO-	
DATE	SI-	THIURON	BACIL	BUFOS	BUFCARB	FLUR-	ALIN			
	MAZINE,	WATER	WATER	WATER	WATER	WATER	WATER			
	WATER,	FLTRD	FLTRD	FLTRD	FLTRD	FLTRD	FLTRD	WAT FLT		
	DISS,	0.7 U								
	REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC		
	(UG/L)	(82670)	(UG/L)	(82665)	(82675)	(82681)	(82661)	(82661)		
AUG 19...	<.005	<.010	<.007	<.013	<.002	<.002				

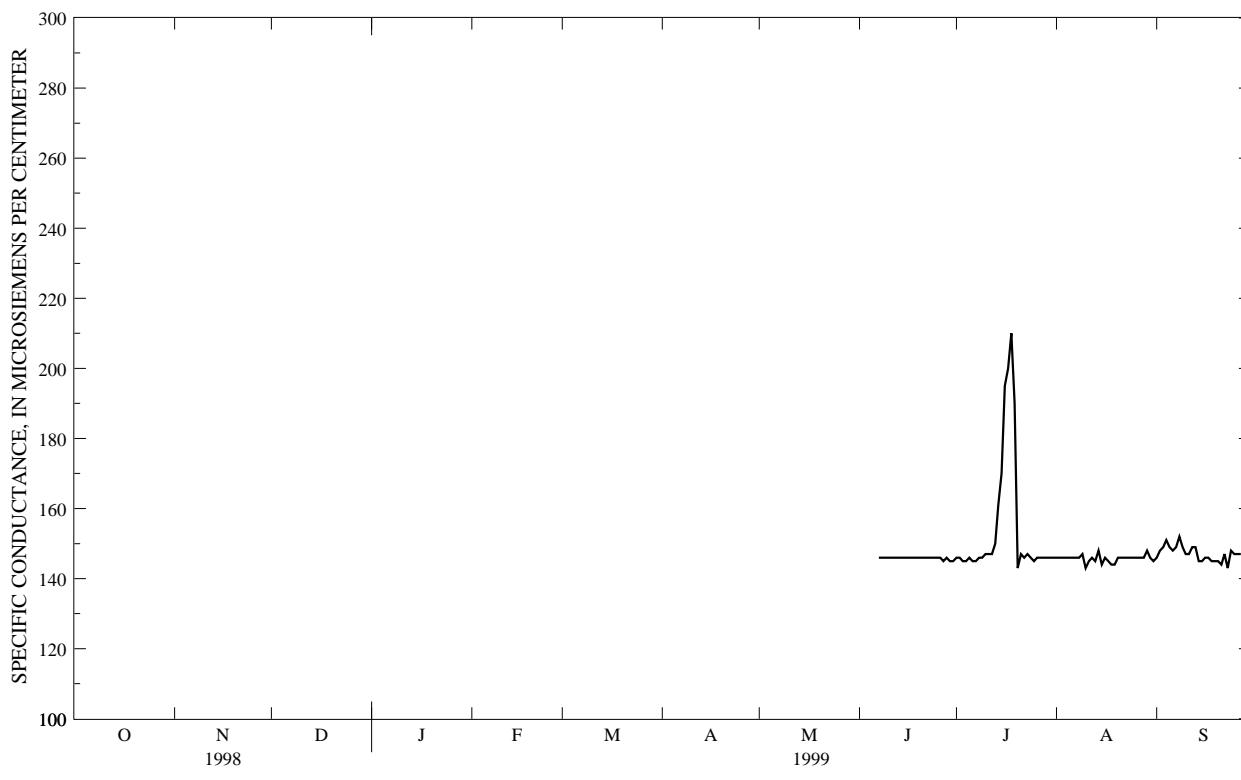
HAWAII, ISLAND OF OAHU

16284200 WAIHEE STREAM NEAR KAHALUU--Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	147	145	146	147	145	146	146	145	146
2	147	146	147	146	144	146	147	145	146	149	146	148
3	---	---	---	146	144	145	147	145	146	152	147	149
4	---	---	---	146	144	145	146	146	146	153	149	151
5	---	---	---	146	144	146	147	146	146	150	148	149
6	---	---	---	147	144	145	147	145	146	148	147	148
7	147	145	146	147	143	145	147	145	146	152	147	149
8	147	145	146	148	145	146	147	144	146	154	149	152
9	147	145	146	148	143	146	148	145	147	149	148	149
10	147	145	146	149	146	147	145	142	143	148	145	147
11	147	145	146	147	146	147	146	143	145	148	146	147
12	147	145	146	148	147	147	146	144	146	150	148	149
13	147	145	146	155	148	150	147	144	145	150	148	149
14	147	145	146	163	155	161	150	145	148	150	130	145
15	146	145	146	188	162	170	145	143	144	147	133	145
16	147	145	146	199	188	195	148	144	146	146	145	146
17	146	144	146	206	196	200	150	141	145	147	145	146
18	147	145	146	215	206	210	144	143	144	147	143	145
19	146	145	146	220	143	190	145	143	144	146	144	145
20	146	145	146	147	138	143	147	145	146	147	143	145
21	147	145	146	147	145	147	147	145	146	228	131	144
22	147	145	146	147	145	146	147	145	146	149	146	147
23	146	145	146	147	146	147	147	145	146	149	126	143
24	146	144	146	147	145	146	147	145	146	149	147	148
25	146	145	146	146	142	145	147	145	146	148	146	147
26	146	145	146	147	146	146	147	144	146	147	146	147
27	146	143	145	147	145	146	146	145	146	148	146	147
28	149	145	146	146	145	146	148	145	146	---	---	---
29	147	144	145	147	145	146	149	146	148	148	146	147
30	147	144	145	147	145	146	148	142	146	150	147	149
31	---	---	---	147	145	146	146	145	145	---	---	---
MONTH	---	---	---	220	138	154	150	141	146	---	---	---



HAWAII, ISLAND OF OAHU

16284200 WAIHEE STREAM NEAR KAHALUU--Continued

WATER-QUALITY RECORDS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	21.0	20.0	20.5	21.5	20.0	20.5	21.0	20.5	20.5
2	20.5	20.0	20.5	20.5	20.0	20.5	21.0	20.0	20.5	21.0	20.5	20.5
3	---	---	---	21.0	20.0	20.5	20.5	20.5	20.5	21.0	20.0	20.5
4	---	---	---	21.0	20.0	20.5	20.5	20.5	20.5	21.0	20.0	20.5
5	---	---	---	21.0	20.0	20.5	21.0	20.5	20.5	21.0	20.0	20.5
6	---	---	---	21.0	20.5	20.5	21.0	20.5	20.5	21.0	20.5	20.5
7	21.0	20.0	20.5	21.0	20.5	20.5	21.0	20.5	20.5	21.0	20.0	20.5
8	20.5	20.0	20.5	21.5	20.5	20.5	20.5	20.0	20.5	20.5	20.0	20.5
9	20.5	20.0	20.0	20.5	20.5	20.5	21.0	20.0	20.5	21.0	20.0	20.5
10	21.0	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5
11	20.5	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5	20.5	20.0	20.5
12	21.0	20.0	20.5	20.5	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5
13	21.0	20.0	20.5	20.5	20.0	20.5	21.0	20.5	20.5	21.0	20.0	20.5
14	21.0	20.0	20.5	20.5	20.0	20.5	21.0	20.5	20.5	21.0	19.5	20.5
15	20.5	20.0	20.5	20.5	20.0	20.5	21.0	20.0	20.5	20.5	20.0	20.5
16	21.0	20.0	20.5	21.0	20.0	20.5	21.0	20.5	20.5	20.5	20.0	20.5
17	20.5	20.0	20.5	20.5	20.0	20.5	21.0	20.5	20.5	21.0	20.0	20.5
18	21.0	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5
19	21.0	20.0	20.5	20.5	20.5	20.5	20.5	20.0	20.5	20.5	20.0	20.5
20	21.0	20.0	20.5	21.0	20.5	20.5	21.0	20.0	20.5	21.0	20.0	20.5
21	21.0	20.0	20.5	21.0	20.5	20.5	20.5	20.5	20.5	20.5	19.5	20.0
22	21.0	20.0	20.5	20.5	20.5	20.5	21.0	20.5	20.5	21.0	20.0	20.5
23	21.0	20.0	20.5	20.5	20.0	20.5	21.0	20.5	20.5	20.5	19.5	20.0
24	20.5	20.5	20.5	20.5	20.0	20.0	20.5	20.5	20.5	20.5	20.0	20.5
25	21.0	20.0	20.5	20.5	20.0	20.5	21.0	20.5	20.5	20.5	20.0	20.5
26	20.5	20.0	20.5	21.0	20.5	20.5	21.0	20.5	20.5	20.5	20.5	20.5
27	21.0	20.0	20.5	21.0	20.5	20.5	21.0	20.0	20.5	21.0	20.0	20.5
28	21.0	20.0	20.5	20.5	20.0	20.5	21.0	20.0	20.5	20.5	20.0	20.5
29	20.5	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5
30	20.5	20.0	20.5	21.0	20.0	20.5	21.0	20.0	20.5	20.5	20.0	20.5
31	---	---	---	21.0	20.0	20.5	20.5	20.5	20.5	---	---	---
MONTH	---	---	---	21.5	20.0	20.5	21.5	20.0	20.5	21.0	19.5	20.5

